

D1

- (b) growing a first portion of said cotransfected cells in the presence of said chemical to be screened;
- (c) growing a second portion of said cotransfected cells in the absence of said chemical to be screened, wherein said second portion is a replicate of said first portion,
- (d) comparing the level of expression of said reporter gene in cells of said first portion and said second portion; and
- (e) optionally repeating steps (b) through (d) using one or more alternative chemicals to be screened,

wherein if cells of said first portion of cells express said reporter gene at a higher level than cells of its corresponding replicate in said second portion of cells, then said screened protein together with said screened chemical interacts with said co-regulatory peptidic molecule.

D2

55. (Amended) A method for screening for a protein and a chemical, wherein said protein and said chemical together interact with a nuclear receptor co-regulatory peptidic molecule according to SEQ ID NO: 5, 8 or 9, wherein said method comprises:

- (a) cotransfecting cells with
  - (i) a library of nucleic acids which encode said proteins to be screened,
  - (ii) a gene that encodes said co-regulatory peptidic molecule, and
  - (iii) a reporter gene the expression of which depends upon said co-regulatory peptidic molecule binding to said nuclear receptor or said nuclear receptor ligand binding domain

to produce a library of cells which express a library of proteins to be screened and said co-regulatory peptidic molecule;

- (b) growing colonies of said cotransfected cells in the presence of said chemical to be screened;
- (c) determining the level of expression of said reporter gene in individual colonies of said cotransfected cells; and